

Listing Of The Claims

The following list, if entered, replaces all prior versions of the claims.

1-27 (Canceled)

28. (Previously Presented) A system comprising:
a first circuit board comprising a first electrical contact and a first optical connector;
a second circuit board comprising a second electrical contact and a second optical connector configured to be mated to the first optical connector, wherein when mated to each other, the first optical connector and the second optical connector provide a first optical connection for transmitting at least one optical signal between the first circuit board and the second circuit board; and
a pin header having at least one pin, the at least one pin passing through at least one hole in the first circuit board and at least one hole in the second circuit board, one of the at least one pins configured to make electrical contact with the first electrical contact and the second electrical contact, wherein the at least one pin is perpendicular to the first optical connection between the first optical connector and the second optical connector.
29. (Previously Presented) The system of claim 28, wherein the second optical connector is configured to be displaced along a first axis until the second optical connector is mated with the first optical connector; the first axis is perpendicular to a second axis; and the at least one pin extends along the second axis.
30. (Previously Presented) The system of claim 28, wherein when extended through the at least one hole in the first circuit board and the at least one hole in the second circuit board, the at least one pin provides a second connection for transmitting at least one signal between the first circuit board and the second circuit board.

31. (Canceled)

32. **(Currently Amended)** The system of claim 30 ~~31~~, wherein the first optical connection transmits at least one optical signal between the first circuit board and the second circuit board, and the first connection transmits the at least one optical signal along a first axis.

33. (Previously Presented) The system of claim 32, wherein the second connection transmits at least one electrical signal between the first circuit board and the second circuit board, and the second connection transmits the at least one electrical signal along the second axis.

34. **(Currently Amended)** The system of claim 30 ~~31~~, wherein the optical connection between the first optical connector and the second optical connector fixes the first circuit board and the second circuit board in at least a first plane.

35. (Previously Presented) The system of claim 34, wherein the second circuit board is an OC-192 transmit module.

36. **(Currently Amended)** The system of claim 30 ~~31~~, wherein the second circuit board is disposed with zero interconnection height relative to the first circuit board.

37. (Previously Presented) The system of claim 28, further comprising: a pass-through socket, wherein the at least one pin passes through at least one hole in the pass-through socket.

38. (Previously Presented) The system of claim 37, further comprising: a second pass-through socket, wherein the at least one pin passes through at least one hole in the second pass-through socket.

39. (Previously Presented) The system of claim 38, wherein the pass-through socket is disposed on one side of a combination of the first circuit board and the second circuit board, and the second-pass through socket is disposed on an opposite side of the combination of the first circuit board and the second circuit board.

40. (Previously Presented) The system of claim 28, wherein electrical contact with the at least one pin is maintained by spring force of the first electrical contact and the second electrical contact.

41-45 (Canceled)

46. (Previously Presented) The system of claim 40, further comprising: a pass-through socket, wherein the at least one pin passes through at least one through-hole in the pass-through socket.

47. (Previously Presented) The system of claim 46, further comprising: a second pass-through socket, wherein the at least one pin passes through at least one hole in the second pass-through socket.

48. (Previously Presented) The system of claim 47, wherein the pass-through socket is disposed on one side of a combination of the first circuit board and the second circuit board, and the second-pass through socket is disposed on an opposite side of the combination of the first circuit board and the second circuit board.

49 – 62 (Canceled)